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10/509,608	11/12/2004	Leif Nilsson	SZAC.P0101US	7839

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EXAMINER

KUMAR, SRILAKSHMI K

ART UNIT	PAPER NUMBER
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2629

MAIL DATE	DELIVERY MODE
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02/19/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/509,608

Applicant(s)

NILSSON ET AL.

Examiner

Srilakshmi K. Kumar

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 December 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/ are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The following office action is in response to the amendment filed on December 4, 2007. Claims 1-18 are pending. Claims 17 and 18 are newly added.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 18, applicant has following limitation "detecting that a finger is re-applied to the user surface without regard to other applying and/or removal of the finger with respect to the user surface". This limitation is unclear as to how a finger can be re-applied without removal of the finger first. According to the applicant's invention, the finger must be applied, removed and re-applied in order to navigate backwards. Examiner would like clarity of how detecting a finger has been re-applied with regard to other applying and/or removal of the finger and where in the specification this limitation finds support. Appropriate correction is required.

Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. **Claims 1-18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Wallace et al. (U.S. Patent No. 6,621,483) in view of Applicant's Admitted Prior Art (AAPA), and further in view of Bower (US-PGPUB 2002/0072915).

With reference to claims **1 and 17**, Wallace et al. teaches a method and apparatus (1) for navigating on an electronic device (see column 2, lines 46-65) wherein a member (1) for navigating is controlled by applying a finger (6) of a user to the member (1); characterized in that navigating by removing the finger from the member (1) and re-applying it to the movable physical member within a set time limit (see abstract; column 5, lines 6-33). Wallace fails to teach a hierarchically organized menu system in the electronic device. Applicant's admitted prior art (hereinafter AAPA) on page 1, lines 22-25 of the specification teach where it is well known in the art for hierarchically structured menu system is commonly known in electronic

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devices, such as computers, mobile telephones, PDAs (Personal Digital Assistant), etc, further, on page 1, lines 35-page 2, line 10, AAPA teaches where a joystick is employed in the method of navigating in a hierarchically organized menu system. It would have been obvious to one of ordinary skill in the art to include the hierarchically organized menu system in the electronic device of Wallace et al as the electronic device of Wallace et al is a computer (col. 1, lines 47-48) and where it is common to employ the menu system in a computer based electronic devices (AAPA, page 1, lines 22-25).

Wallace as modified by AAPA fails to teach navigating in a backwards direction by removing the finger from the movable physical member and re-applying the finger to the movable physical member within a set time limit. Bower teaches on page 4, paragraph 0043, using an input device, whereby removing the finger from the movable physical member and re-applying the finger to the movable physical member within a set time limit (shown by the double click) navigates backwards (move back to the previous hyperlink or to other logical steps on the page). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of navigating backwards as taught by Bower into Wallace as modified by AAPA as the backwards navigation enable users to return to previous links (Bower, page 4, paragraph 0043).

With reference to **claims 3 and 18**, Wallace et al teaches all the limitations as set forth in claim 1, and further, Wallace et al. also teaches sensing means (2, 9) for sensing a finger (6) is applied to the user surface (5) of the member (1), wherein the sensing means is eclectically connected to a timer (40) arranged to start counting when the finger (6) is removed from the user

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surface of the member (1) and to stop when the finger (6) is re-applied to the user surface (5) of the member (1) (see column 4, line 60-column 5, line 46; column 8, line 37-column 9, line 8).

While Wallace as modified by AAPA and Bower teach wherein said electronic device is arranged to perform a step backwards in a hierarchy of commands in the hierarchically organized menu system following said sensing means detecting that finger is re-applied to the user surface, there fails to be a teaching of where the timer counting is below a set limit. Examiner takes Official Notice that the timer counting is below a set limit is well known in the art. It would have been obvious to one of ordinary skill in the art to include where the timer counting is below a set limit into the input device system of Wallace as modified by AAPA and Bower as the double clicking feature taught by Bower requires a set time limit in order for implementation as is well known in the art.

With reference to **claim 2**, Wallace et al. teaches that the set time limit is below a few seconds (see column 8, line 63-column 9, line 8).

With reference to **claim 4**, Wallace et al. teaches that the sensing means comprises an IR diode (2) and an IR detector (9) arranged in such a manner that IR light is reflected from the IR diode to the IR detector by the finger when the finger is applied to or is in the proximity of the user surface of the movable physical member (see column 5, lines 47-column 6, line 4).

With reference to **claims 5-7**, Wallace teaches that the IR diode (2) and the IR detector (9) are positioned at a base of the member, and that two light guides (4, 8) extend from the base of the member to the user surface of the member (see Figure 1).

With further reference to **claims 6 and 7**, Wallace fails to specifically teach the usage of the depression of a micro switch or the shorting of conductive areas to sense when a finger is

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applied to a user surface. However, the examiner takes Official Notice that the usage of optical detectors, switches, conductive surface (i.e. methods of detection in touch panel device) are well known in the art for usage as well as to be interchangeable with one another.

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow the usage of a micro switch or conductive surface as opposed to an optical surface, as well known in the art, with a device similar to that which is taught by Wallace, thereby providing an alternative arrangement for the user to input information into the system.

With reference to **claims 8 and 10**, Wallace teaches that the electronic device, being a mobile communications device, is provided with a display adapted to graphically display at least a part of the menu system (see column 7, lines 45-49).

With reference to **claim 9**, Wallace teaches the member as a joystick type device (see Figure 1).

With reference to **claims 11 and 12**, see claim 3, above.

With reference to **claim 13**, further comprising Wallace teaches operating the physical member to activate a command at any chosen position (col. 2, lines 47-65) in the hierarchically organized menu system.

With reference to **claim 14 and 15**, Wallace fails to specifically teach wherein said two conductive area are exposed to engage a finger applied to the user surface and said being electrically short circuited comprising electrical connection of either a resistive or capacitive coupling, through a part of the finger. However, the examiner takes Official Notice that the usage of a conductive surface (i.e. methods of detection in touch panel device), and where two conductive areas are exposed to engage a finger applied to the user surface and said being

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electrically short circuited comprising electrical connection of either a resistive or capacitive coupling, through a part of the finger are well known in the art.

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow the usage of where two conductive areas are exposed to engage a finger applied to the user surface and said being electrically short circuited comprising electrical connection of either a resistive or capacitive coupling, through a part of the finger, as well known in the art, with a device similar to that which is taught by Wallace, thereby providing an alternative arrangement for the user to input information into the system.

With reference to **claim 16**, AAPA teaches wherein the movable physical member is depressable (page 2, line 2 of the spec) and arranged to activate a command at any chosen position in the hierarchically organized menu system when depressed (page 2, lines 1-10 of the spec).

Response to Arguments

7. Applicant's arguments filed December 4, 2007 have been fully considered but they are not persuasive.

Applicant argues where the instant applicant's invention is not a double click therefore the prior art of Bower can not be used because Bower teaches double click. Examiner, respectfully, disagrees. Applicant's invention claims removing a finger from a user surface and if the finger is re-applied to the user surface within a time limit then the system navigates. The double click feature of Bower is similar. The double click feature is the same as applying the finger to a user surface, removing and re-applying the finger within a time limit.

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Applicant further, states on page 8 of the response where the applicant's invention as is disclosed on page 3, lines 18-22 of the specification does not relate to a double click invention. While the specification states on page 3, lines 18-22, the summary of the applicant's invention, applicant in the claims discloses claim language as broadly interpreted reads on a double click.

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Applicant argues where the prior art of Wallace, AAPA and Bower do not teach navigating in backward direction by removing the finger from the moveable physical member and re-applying the finger to the moveable physical member within a set time limit. The prior art of Bower teaches in paragraph 0043 a double click is used to move backwards, and as is well known in the art, a double click has a set time limit between each click.

With respect to applicant's arguments of where Wallace does not teach a timer, but teaches a momentum simulator, examiner, respectfully, disagrees. Wallace teaches a timing device in the momentum simulator used for counting.

Applicant continually argues where the invention is not directed to a double click, however, the claim language broadly suggests a double click function.

With respect to applicant's arguments where in new claim 18, applicant has claimed the limitation of "detecting a finger has be re-applied without regard to other applying and/or removal of the finger" which is not taught by the prior art of Wallace, AAPA and Bower. Examiner would like to refer to the 35 USC 112 rejection above as this is not clear and not supported by the specification. Examiner would like clarity of how detecting a finger has been re-applied with regard to other applying and/or removal of the finger. It is unclear how a finger can be re-applied without removal of the finger first. According to the applicant's invention, the finger must be applied, removed and re-applied in order to navigate backwards.

As shown by the rejection above, the claims of the instant application are taught by the combination of Wallace, AAPA and Bower. Therefore, the rejection is maintained and made FINAL.

Conclusion

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8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srilakshmi K. Kumar whose telephone number is 571 272 7769. The examiner can normally be reached on 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Lefkowitz can be reached on 571 272 3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Srilakshmi K Kumar
Examiner
Art Unit 2629

SKK
February 12, 2008



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SUPERVISORY PATENT EXAMINER